

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060818\
 Data File : VX002406.D
 Acq On : 08 Jun 2018 17:10
 Operator : JC/MD
 Sample : J3409-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z4TB09-180607

Quant Time: Jun 09 01:50:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	212457	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	312526	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	289058	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	155257	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	176831	58.81	ug/l	0.00
Spiked Amount			Recovery	=	117.62%	
35) Dibromofluoromethane	5.51	113	131909	53.67	ug/l	0.00
Spiked Amount			Recovery	=	107.34%	
50) Toluene-d8	8.72	98	522081	55.42	ug/l	0.00
Spiked Amount			Recovery	=	110.84%	
62) 4-Bromofluorobenzene	11.14	95	175452	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	

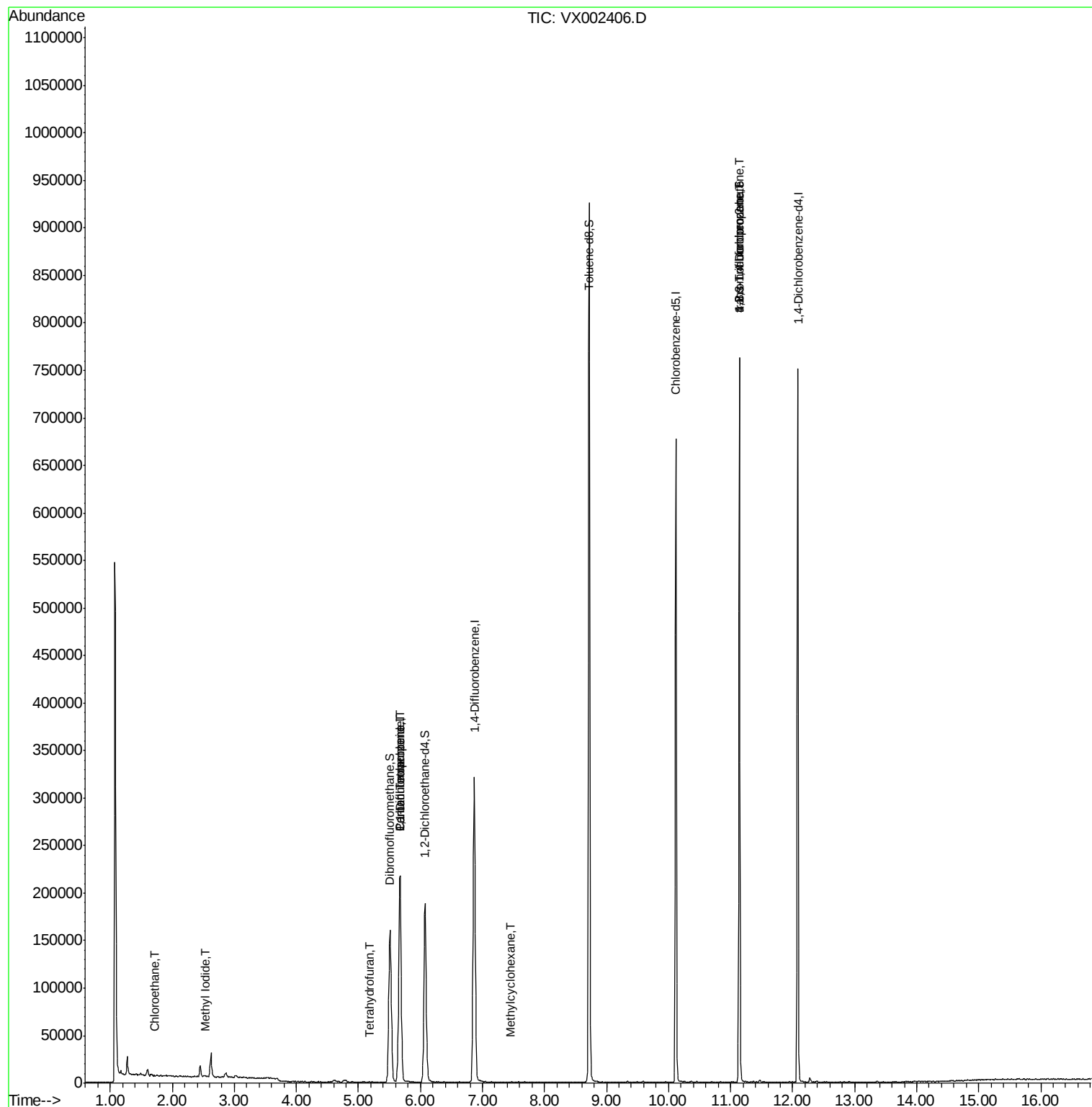
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	536	Below Cal		100
5) Bromomethane	1.66	94	1595	Below Cal		87
6) Chloroethane	1.70	64	477	0.26	ug/l #	43
8) Diethyl Ether	2.02	74	76	Below Cal		90
10) Methyl Iodide	2.54	142	1683	0.52	ug/l #	89
11) Tert butyl alcohol	3.03	59	1307	Below Cal	#	84
13) Acrolein	2.29	56	223	Below Cal		87
15) Acrylonitrile	3.15	53	181	Below Cal	#	17
16) Acetone	2.45	43	12624	Below Cal		98
18) Methyl Acetate	2.62	43	7230	Below Cal	#	56
19) Methyl tert-butyl Ether	3.26	73	51	Below Cal	#	54
20) Methylene Chloride	2.87	84	2006	Below Cal		97
22) Diisopropyl ether	3.89	45	175	Below Cal	#	41
28) Bromochloromethane	5.04	49	19	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	625	0.47	ug/l #	54
36) 1,1-Dichloropropene	5.67	75	15390	4.68	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20610	6.00	ug/l #	16
39) Methylcyclohexane	7.46	83	72	0.28	ug/l #	69
76) 1,2,3-Trichloropropane	11.14	75	95902	28.15	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	95902	98.68	ug/l #	7

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

Instrument :

MSVOA_X

ClientSampleId :

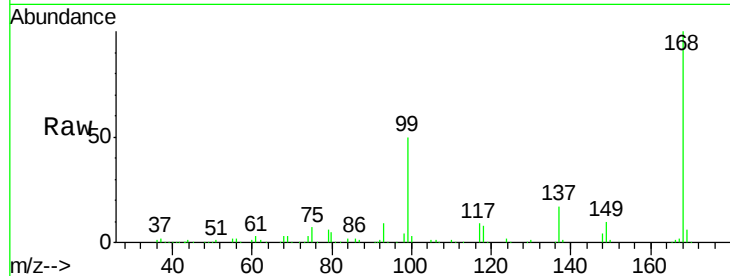
Z4TB09-180607

Tot Ion:168 Resp: 212457

Ion Ratio Lower Upper

168 100

99 50.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

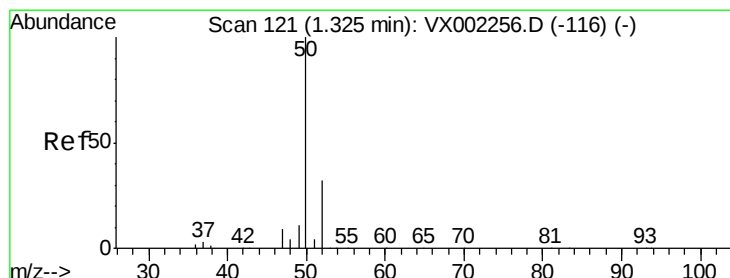
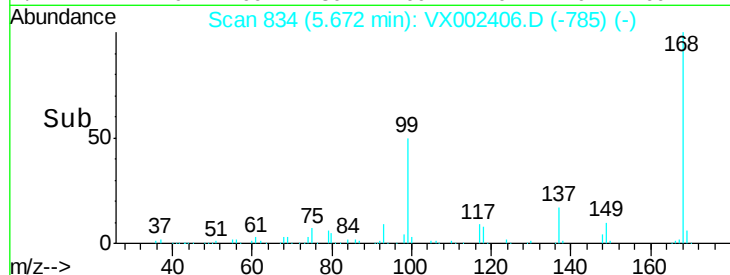
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002406.D

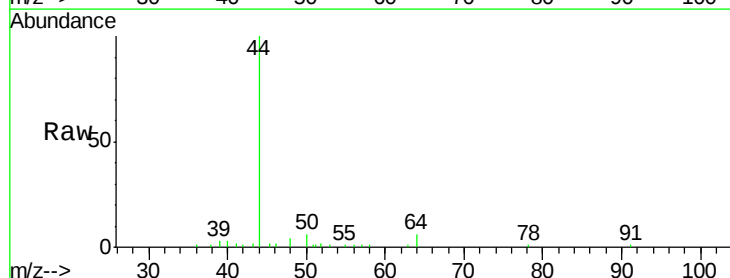
Acq: 08 Jun 2018 17:10

Tgt Ion: 50 Resp: 536

Ion Ratio Lower Upper

50 100

52 32.2 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

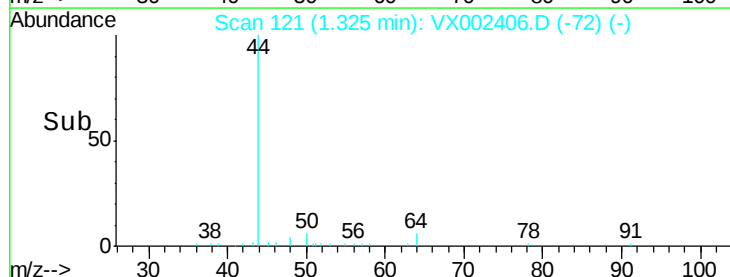
300

200

100

0

Time--> 1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

Instrument :

MSVOA_X

ClientSampleId :

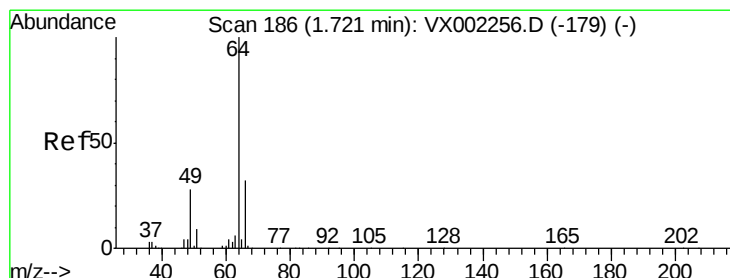
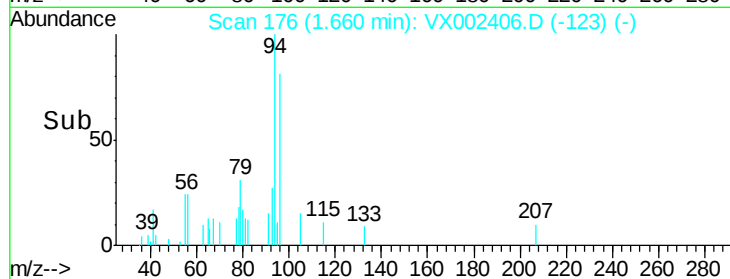
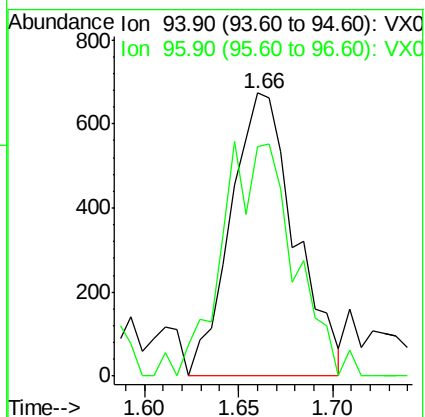
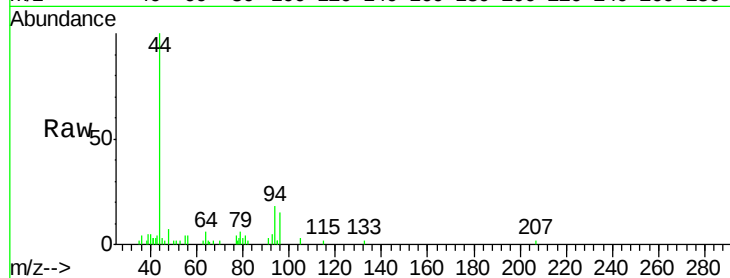
Z4TB09-180607

Tot Ion: 94 Resp: 1595

Ion Ratio Lower Upper

94 100

96 81.0 74.9 112.3



#6

Chloroethane

Concen: 0.26 ug/l

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX002406.D

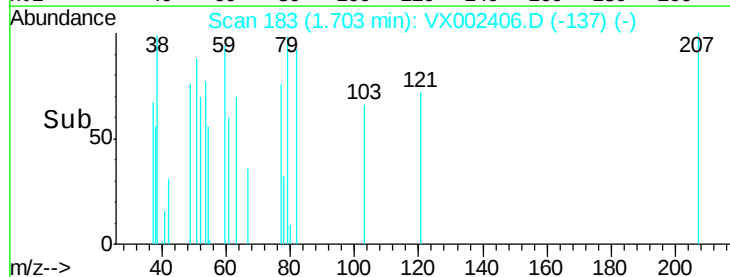
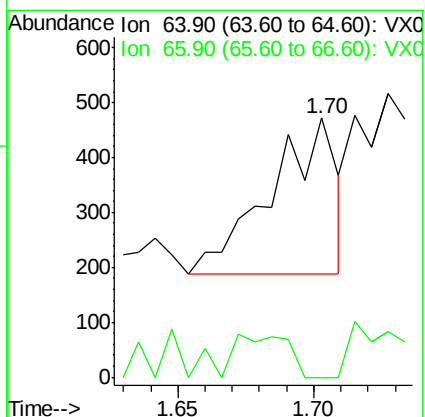
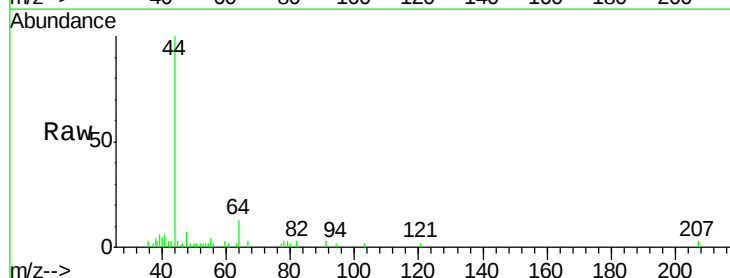
Acq: 08 Jun 2018 17:10

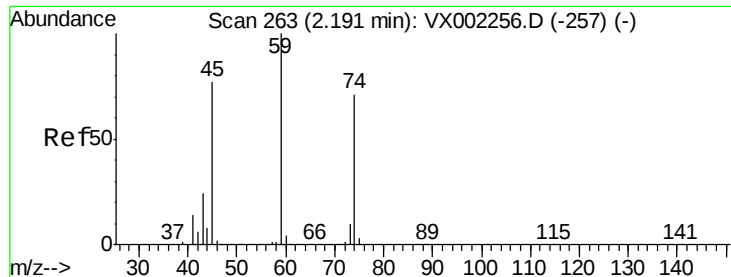
Tgt Ion: 64 Resp: 477

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.02 min Scan# 235

Delta R.T. -0.17 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

Instrument :

MSVOA_X

ClientSampleId :

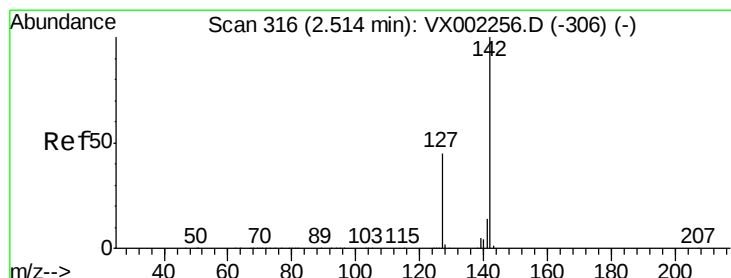
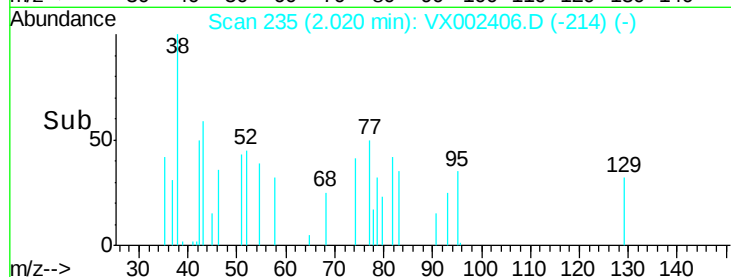
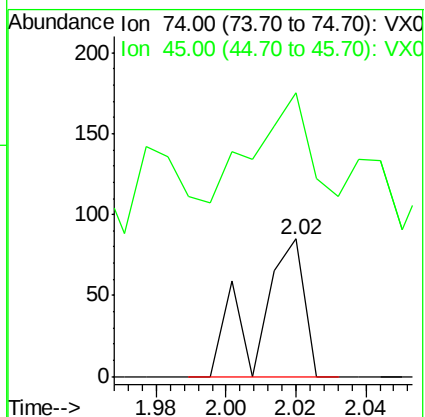
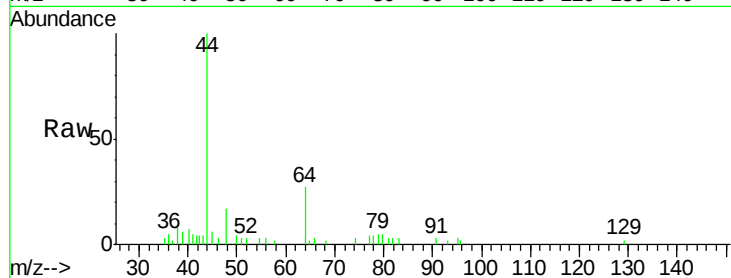
Z4TB09-180607

Tot Ion: 74 Resp: 76

Ion Ratio Lower Upper

74 100

45 96.1 53.1 159.4



#10

Methyl Iodide

Concen: 0.52 ug/l

RT: 2.54 min Scan# 320

Delta R.T. 0.02 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

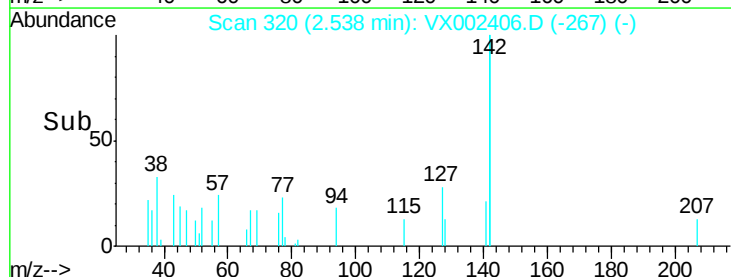
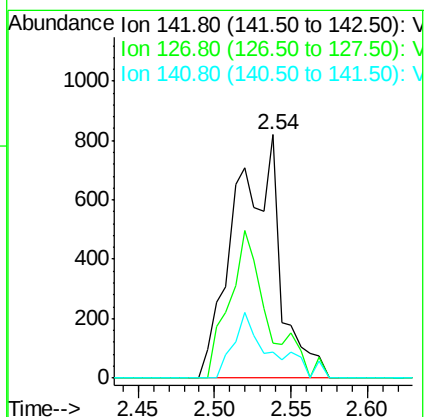
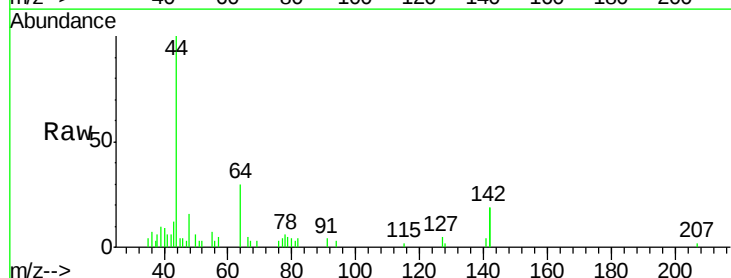
Tgt Ion: 142 Resp: 1683

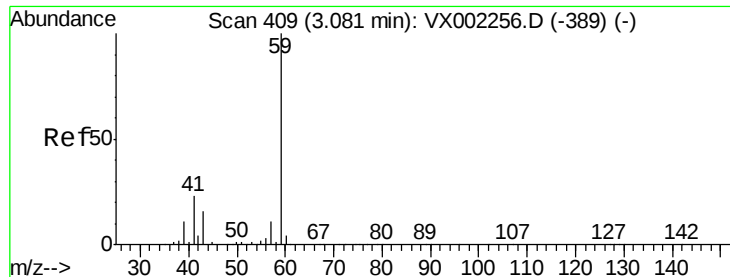
Ion Ratio Lower Upper

142 100

127 51.7 36.6 55.0

141 21.9 11.3 16.9#



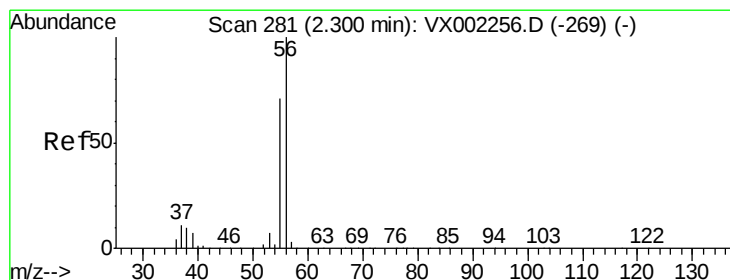
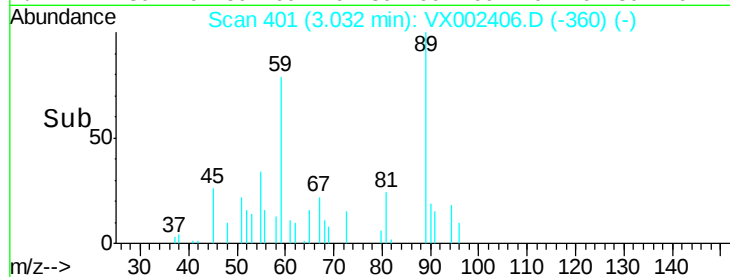
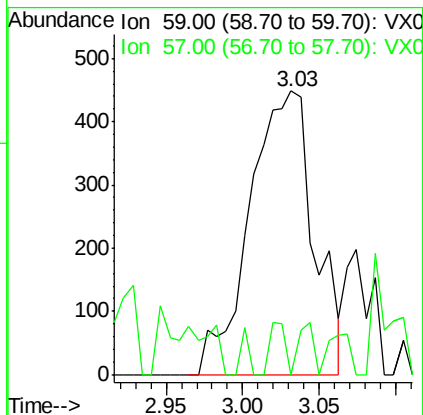
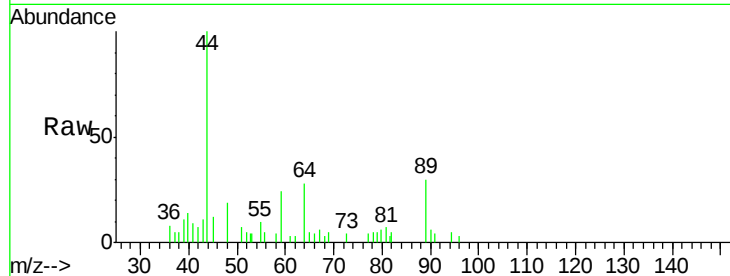


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 401
Delta R.T. -0.05 min
Lab File: VX002406.D
Acq: 08 Jun 2018 17:10

Instrument :
MSVOA_X
ClientSampleId :
Z4TB09-180607

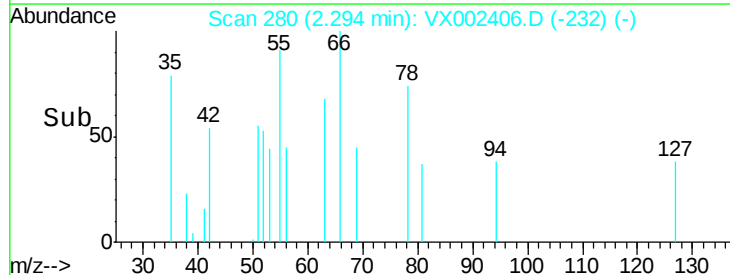
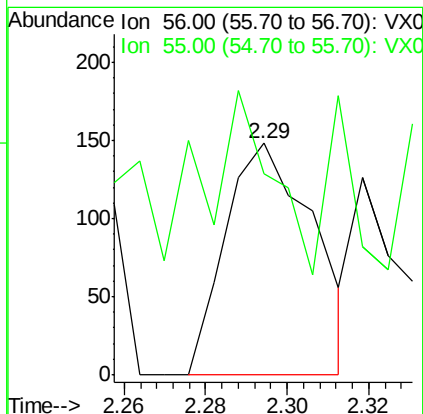
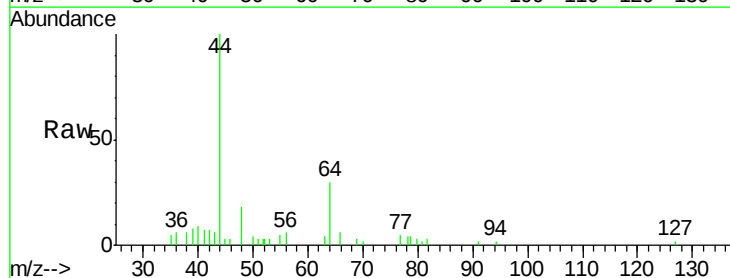
Tot Ion: 59 Resp: 1307
Ion Ratio Lower Upper
59 100
57 4.3 8.2 12.2#

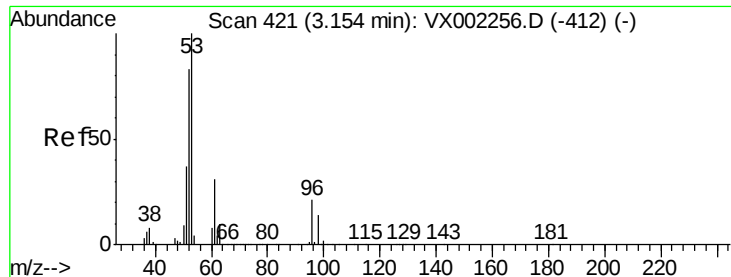


#13

Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX002406.D
Acq: 08 Jun 2018 17:10

Tgt Ion: 56 Resp: 223
Ion Ratio Lower Upper
56 100
55 60.5 57.0 85.4





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

Instrument :

MSVOA_X

ClientSampleID :

Z4TB09-180607

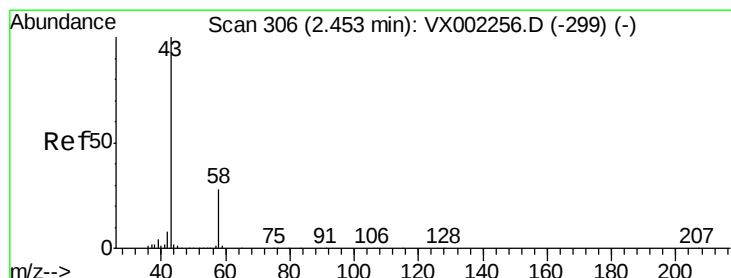
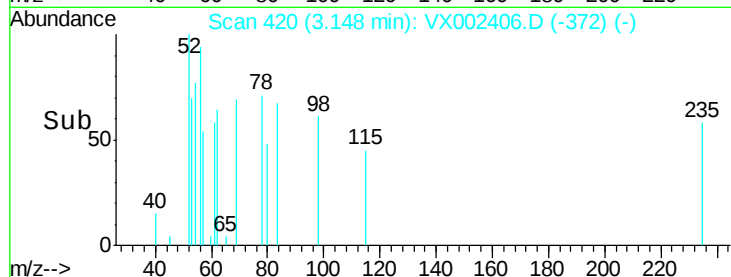
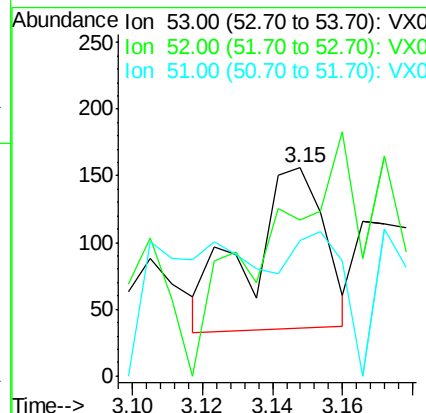
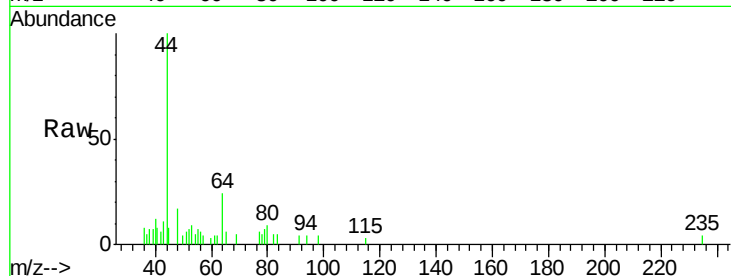
Tot Ion: 53 Resp: 181

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 0.0 29.9 44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002406.D

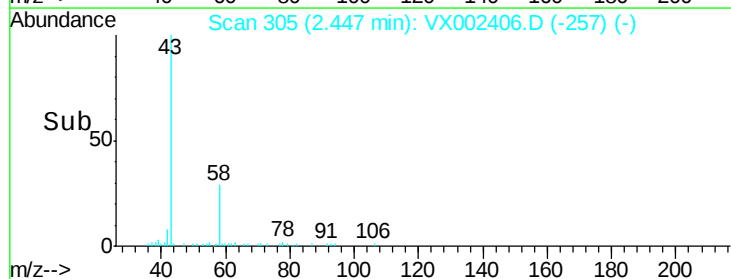
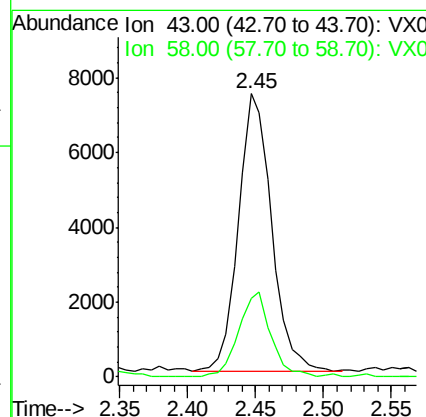
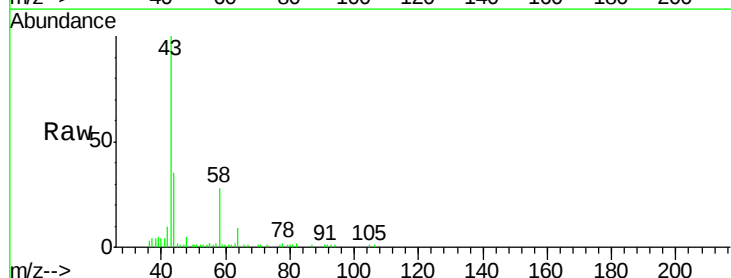
Acq: 08 Jun 2018 17:10

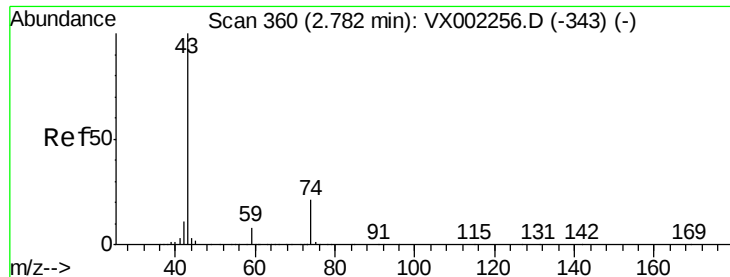
Tgt Ion: 43 Resp: 12624

Ion Ratio Lower Upper

43 100

58 28.5 22.1 33.1

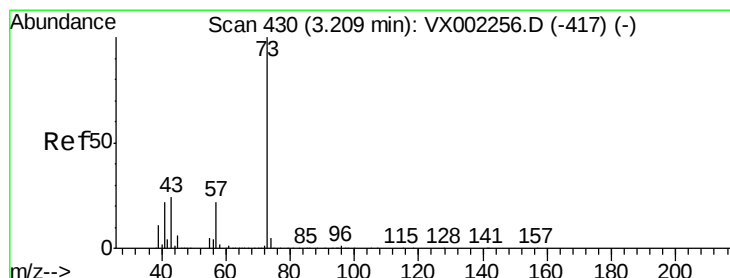
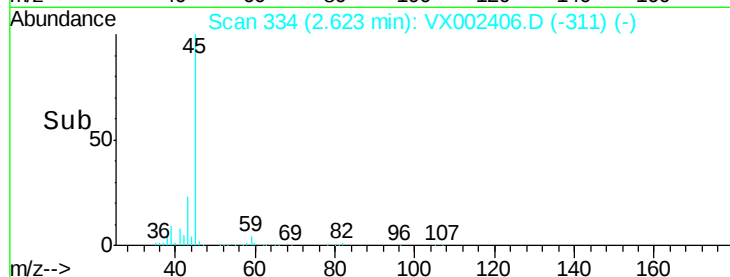
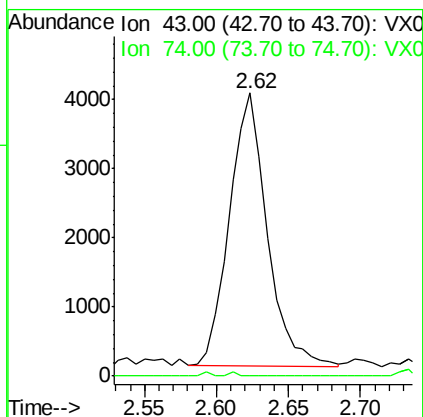
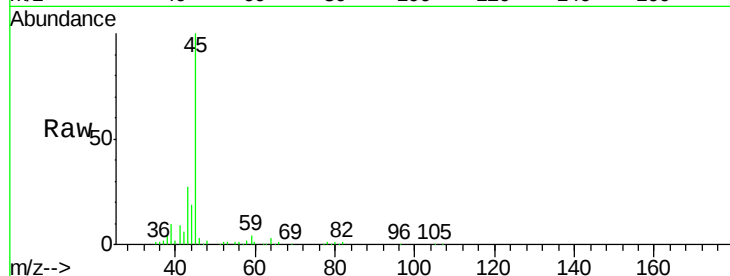




#18
Methyl Acetate
Concen: Below Cal
RT: 2.62 min Scan# 334
Delta R.T. -0.16 min
Lab File: VX002406.D
Acq: 08 Jun 2018 17:10

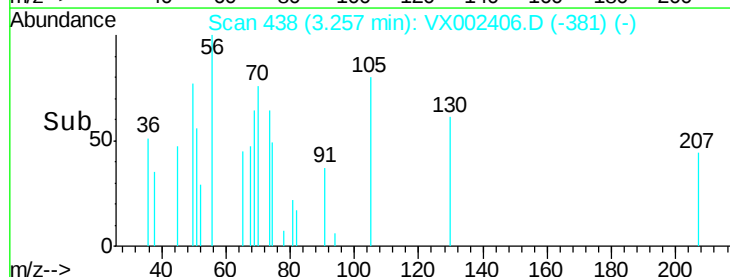
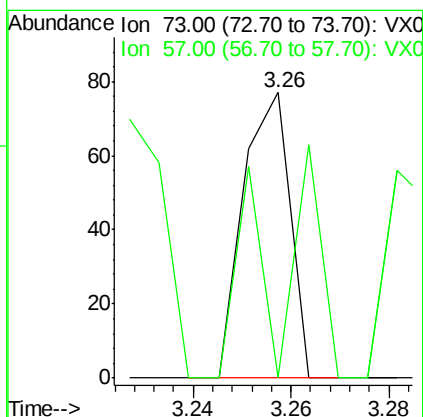
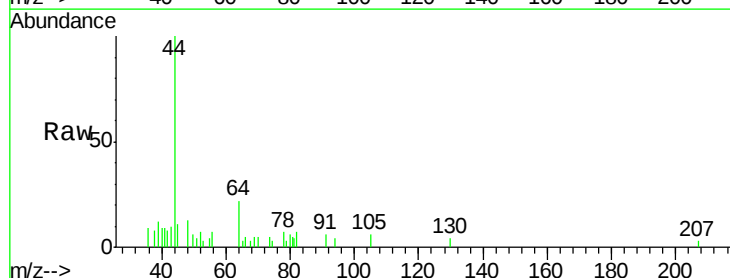
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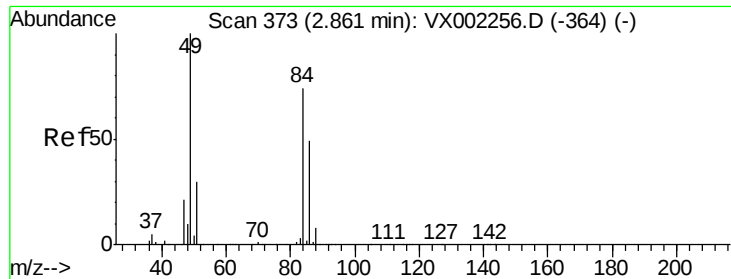
Tot Ion: 43 Resp: 7230
Ion Ratio Lower Upper
43 100
74 0.3 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.26 min Scan# 438
Delta R.T. 0.05 min
Lab File: VX002406.D
Acq: 08 Jun 2018 17:10

Tgt Ion: 73 Resp: 51
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

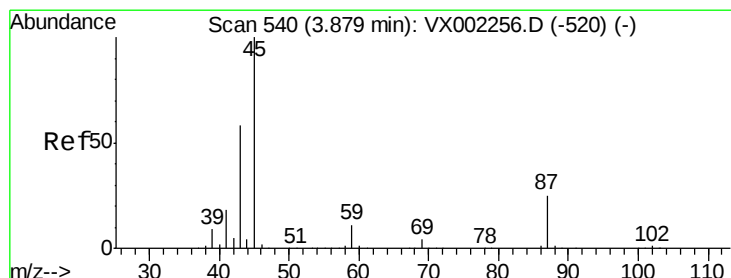
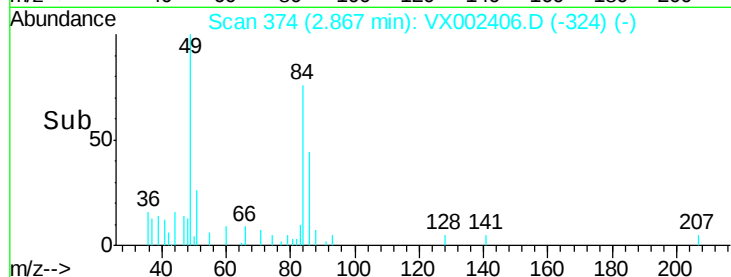
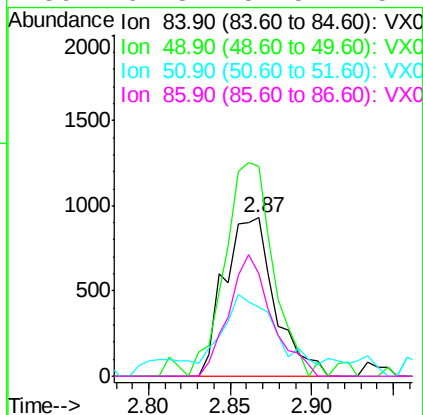
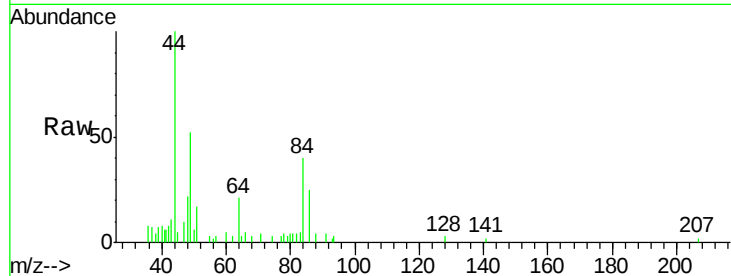




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002406.D
Acq: 08 Jun 2018 17:10

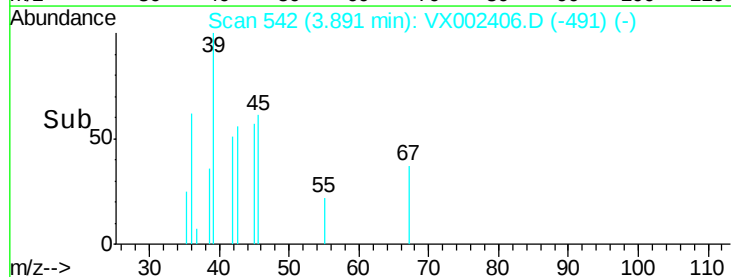
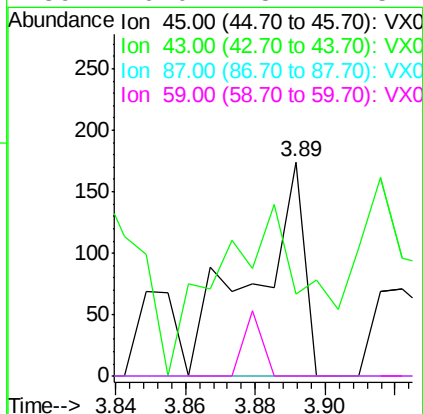
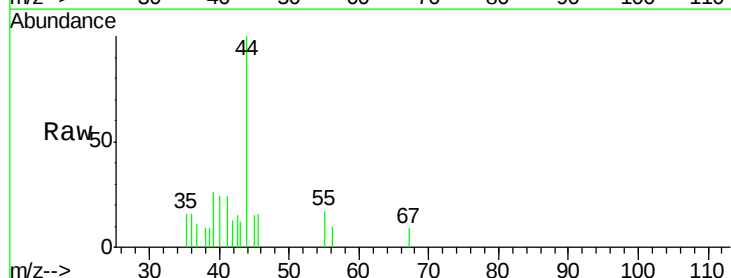
Instrument :
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Z4TB09-180607

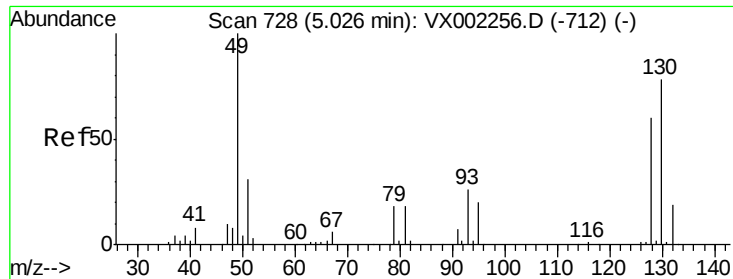
Tot Ion:	84	Resp:	2006
Ion	Ratio	Lower	Upper
84	100		
49	132.3	107.8	161.6
51	34.0	32.8	49.2
86	64.3	52.5	78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 542
Delta R.T. 0.01 min
Lab File: VX002406.D
Acq: 08 Jun 2018 17:10

Tgt Ion:	45	Resp:	175
Ion	Ratio	Lower	Upper
45	100		
43	7.5	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 730

Delta R.T. 0.01 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

Instrument :

MSVOA_X

ClientSampleId :

Z4TB09-180607

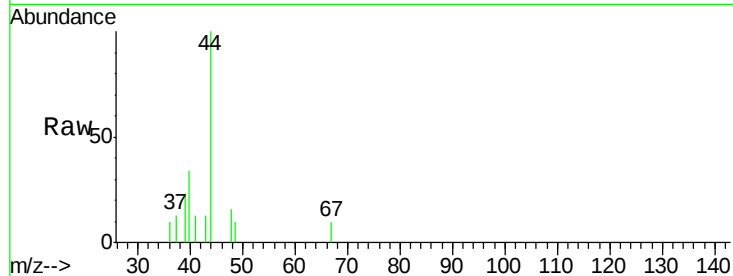
Tot Ion: 49 Resp: 19

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

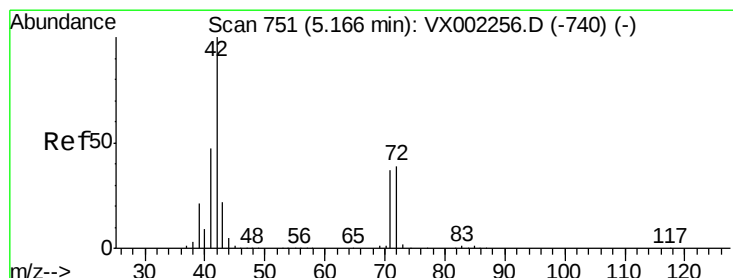
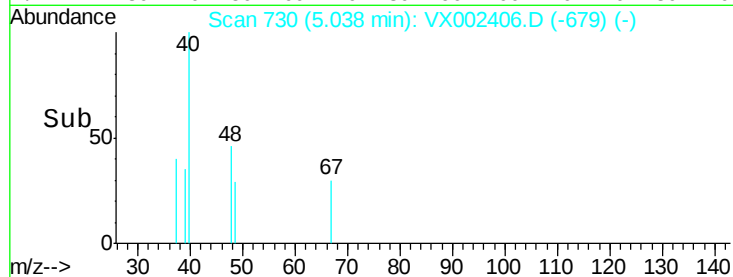
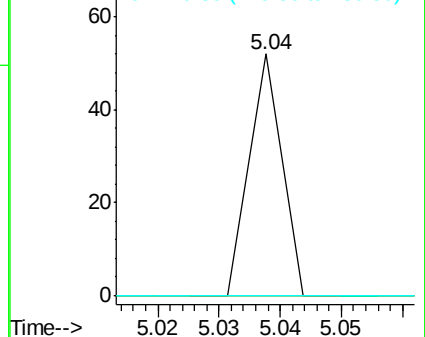
130 0.0 61.2 91.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.47 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

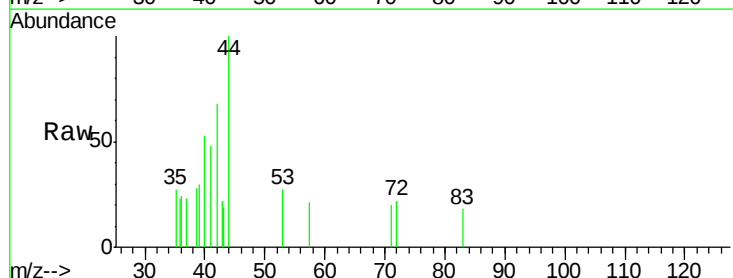
Tgt Ion: 42 Resp: 625

Ion Ratio Lower Upper

42 100

72 14.6 32.0 48.0#

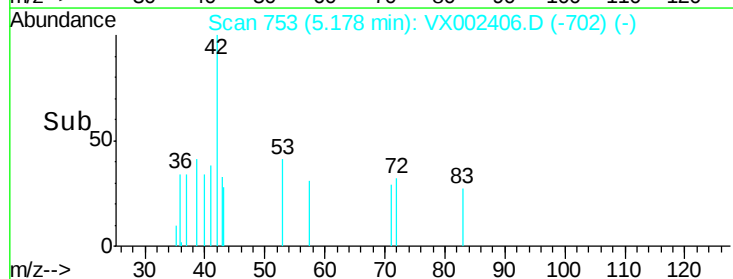
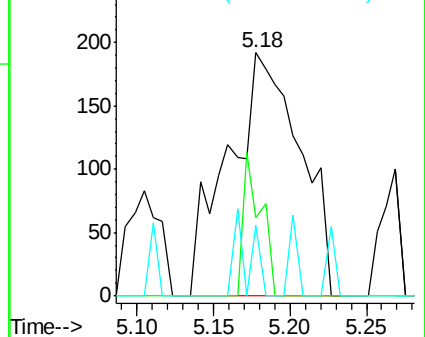
71 7.4 30.1 45.1#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 58.81 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

Instrument :

MSVOA_X

ClientSampleId :

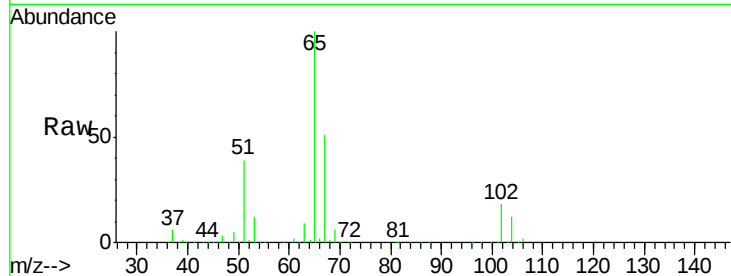
Z4TB09-180607

Tot Ion: 65 Resp: 176831

Ion Ratio Lower Upper

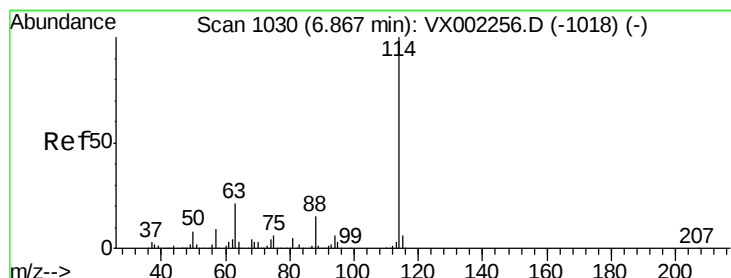
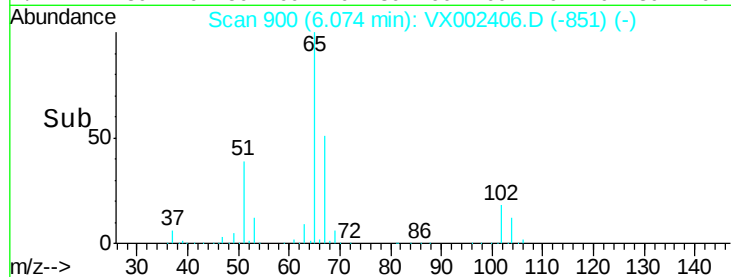
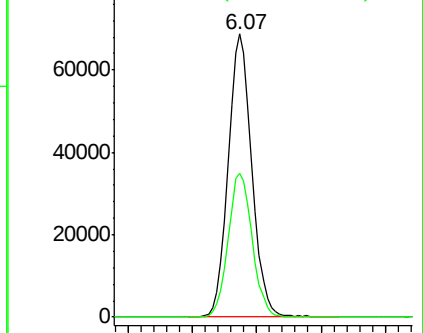
65 100

67 51.8 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

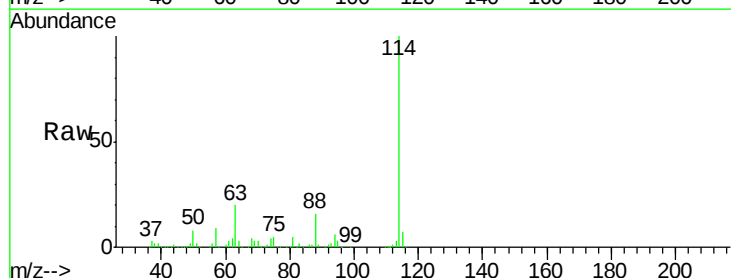
Tgt Ion: 114 Resp: 312526

Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.4

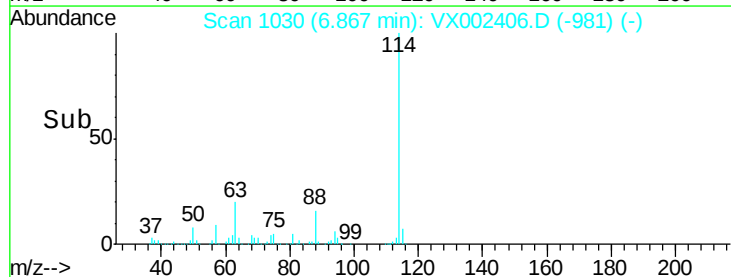
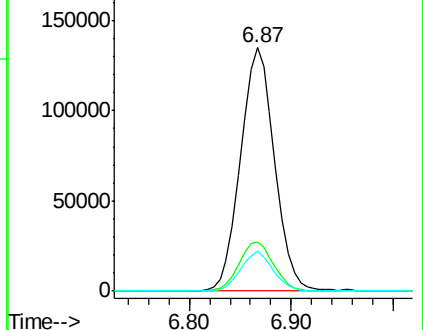
88 16.3 0.0 30.0

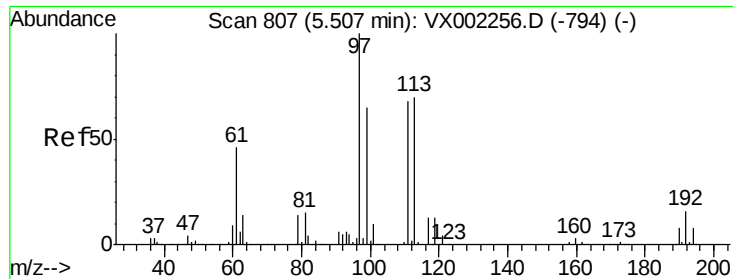


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 53.67 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

Instrument :

MSVOA_X

ClientSampleId :

Z4TB09-180607

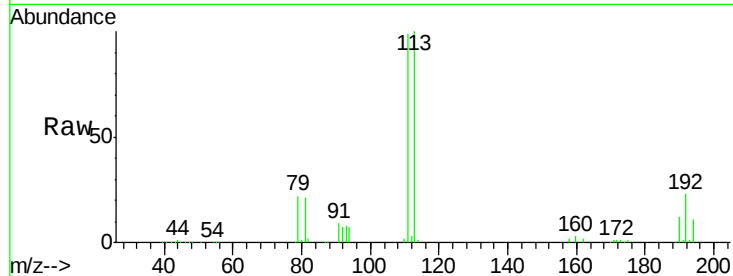
Tot Ion:113 Resp: 131909

Ion Ratio Lower Upper

113 100

111 100.1 81.4 122.0

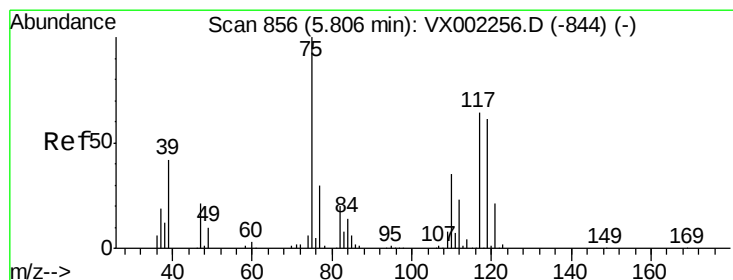
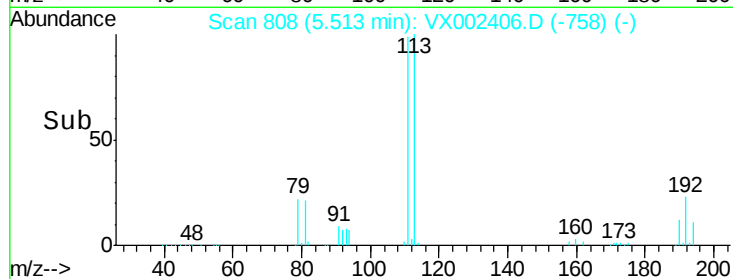
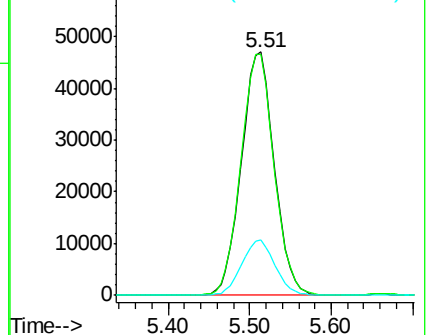
192 23.1 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.68 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

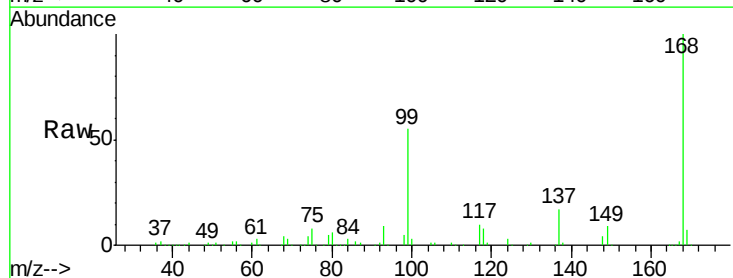
Tgt Ion: 75 Resp: 15390

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.4#

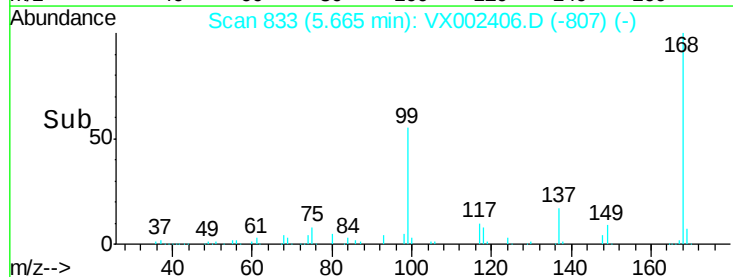
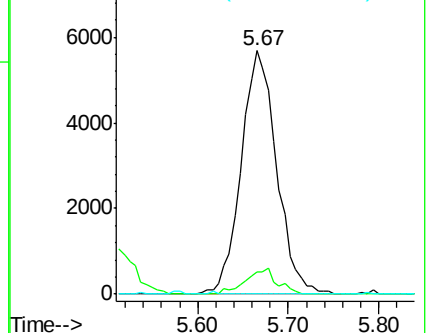
77 0.0 24.3 36.5#

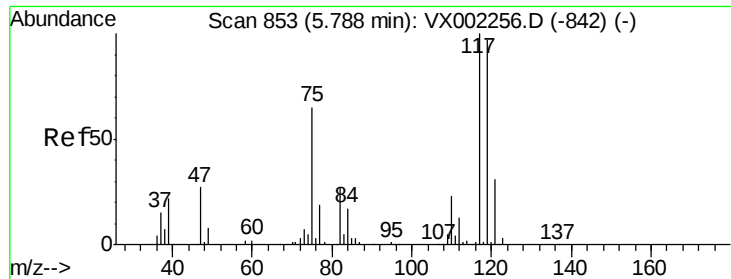


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

Instrument :

MSVOA_X

ClientSampleId :

Z4TB09-180607

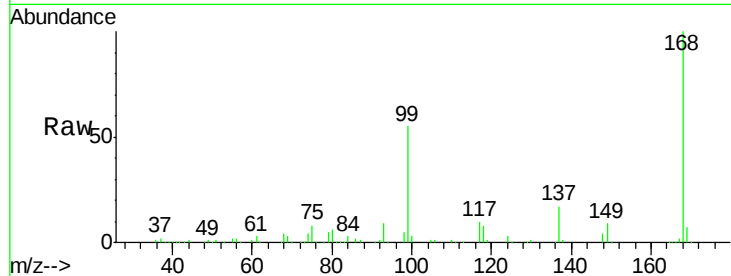
Tot Ion:117 Resp: 20610

Ion Ratio Lower Upper

117 100

119 5.1 77.4 116.0#

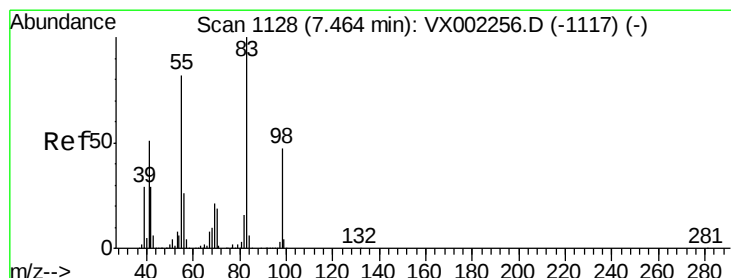
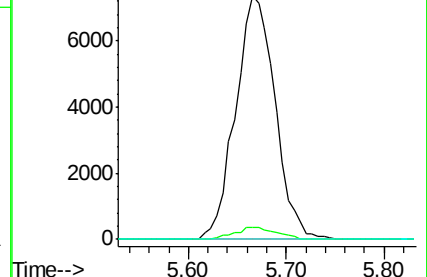
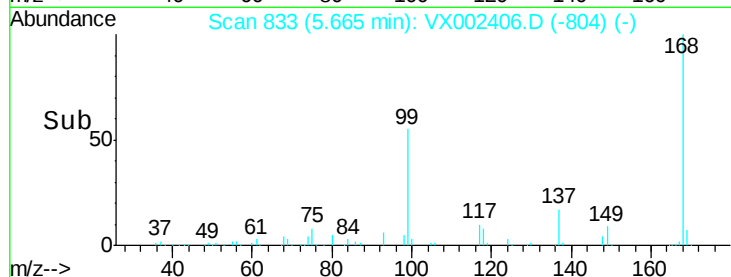
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.28 ug/l

RT: 7.46 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

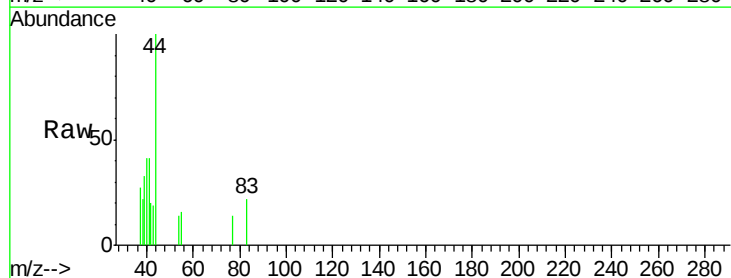
Tgt Ion: 83 Resp: 72

Ion Ratio Lower Upper

83 100

55 74.1 65.4 98.0

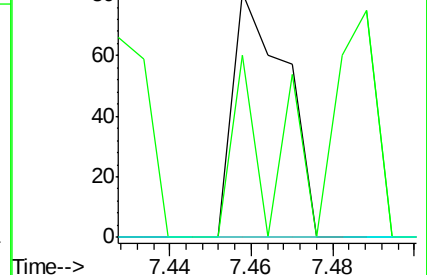
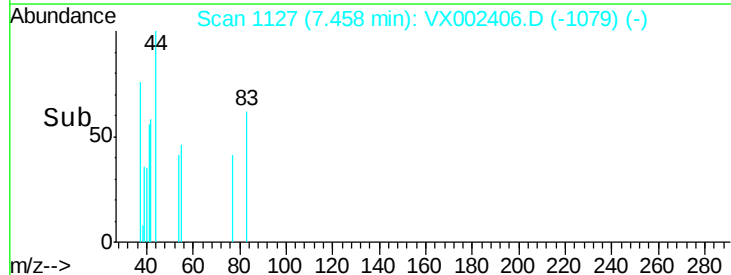
98 0.0 37.4 56.0#

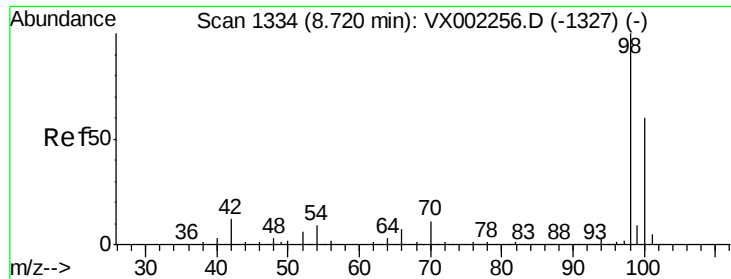


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 55.42 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

Instrument :

MSVOA_X

ClientSampleId :

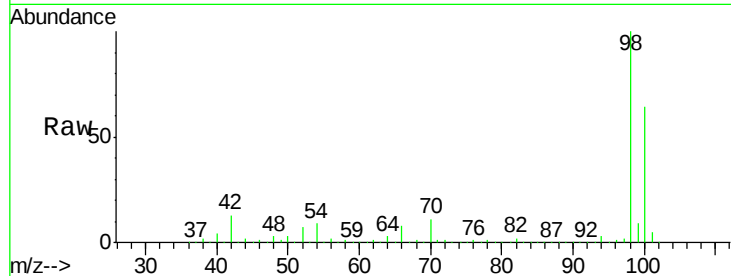
Z4TB09-180607

Tot Ion: 98 Resp: 522081

Ion Ratio Lower Upper

98 100

100 63.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

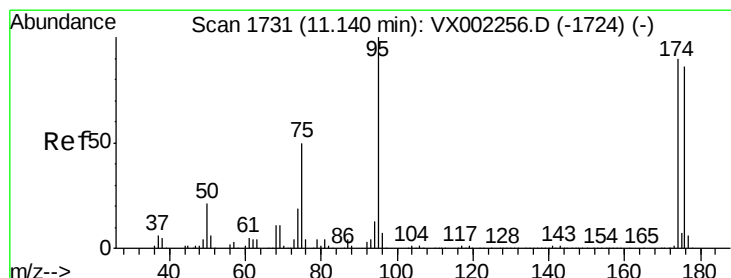
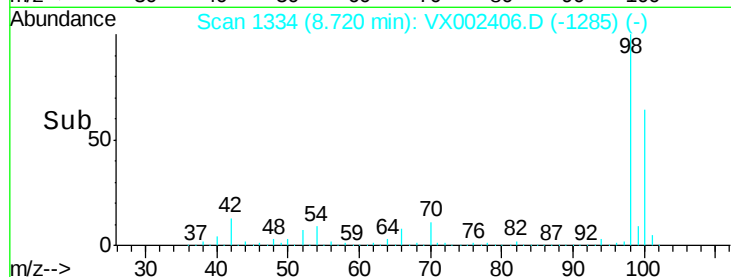
300000

200000

100000

0

Time--> 8.60 8.70 8.80 8.90



#62

4-Bromofluorobenzene

Concen: 48.30 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

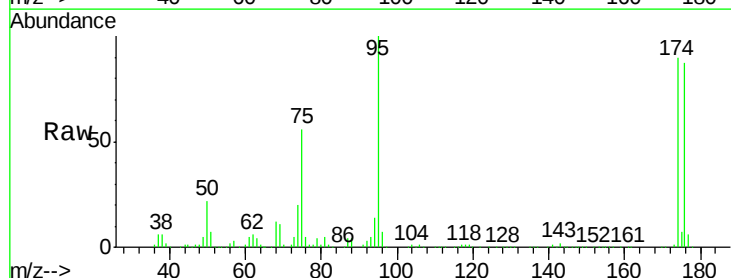
Tgt Ion: 95 Resp: 175452

Ion Ratio Lower Upper

95 100

174 95.3 0.0 187.4

176 91.9 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

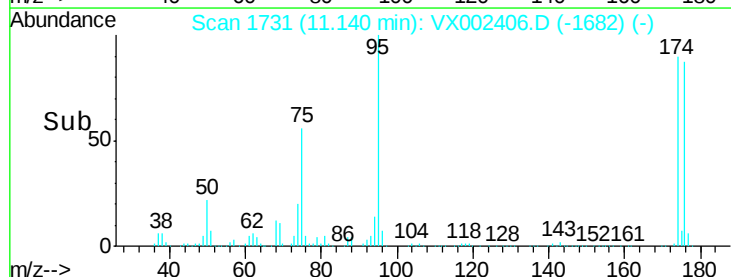
150000

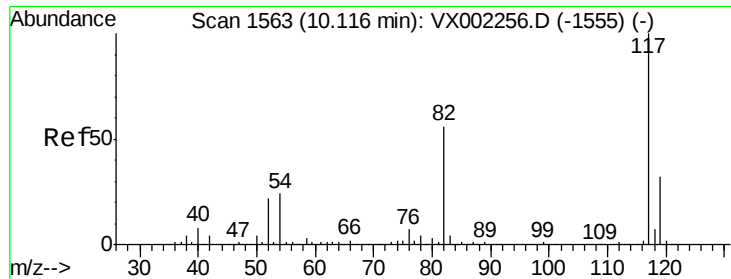
100000

50000

0

Time--> 11.10 11.20





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

Instrument :

MSVOA_X

ClientSampleId :

Z4TB09-180607

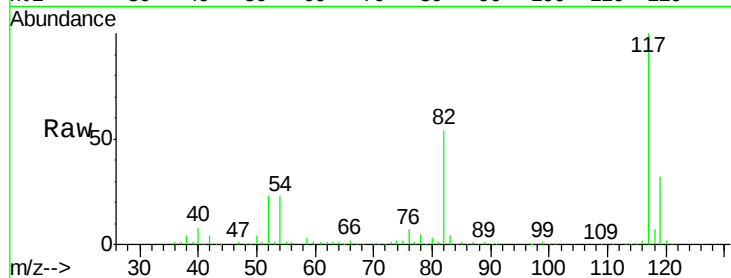
Tot Ion:117 Resp: 289058

Ion Ratio Lower Upper

117 100

82 54.5 45.0 67.4

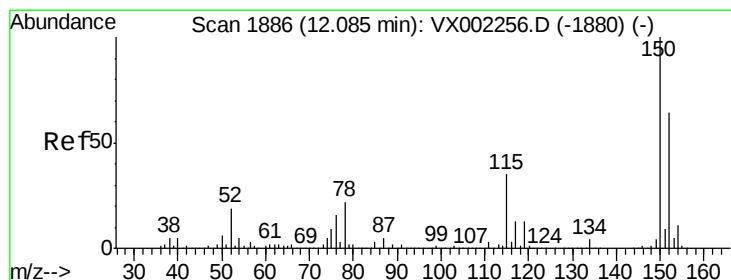
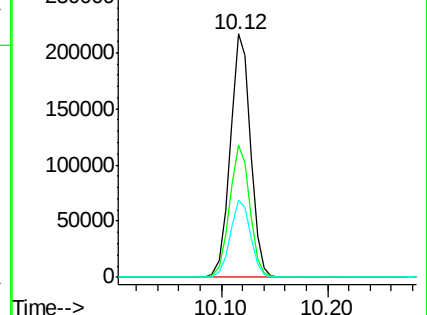
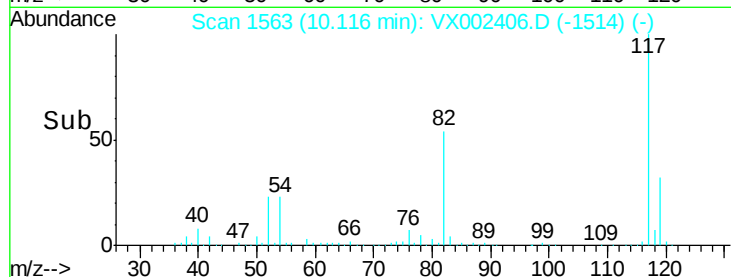
119 31.9 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

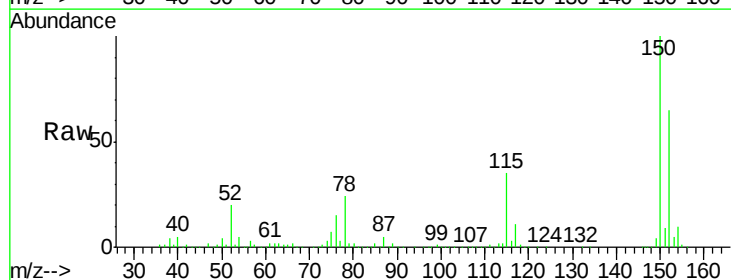
Tgt Ion:152 Resp: 155257

Ion Ratio Lower Upper

152 100

115 55.2 40.1 120.2

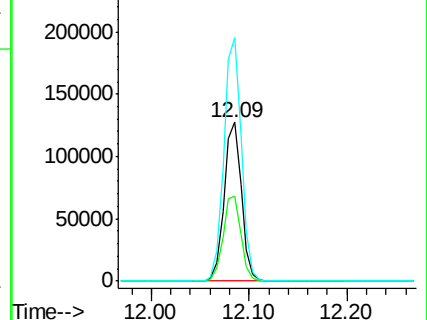
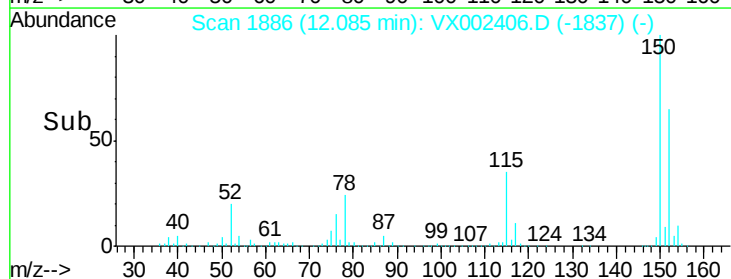
150 155.0 0.0 347.2

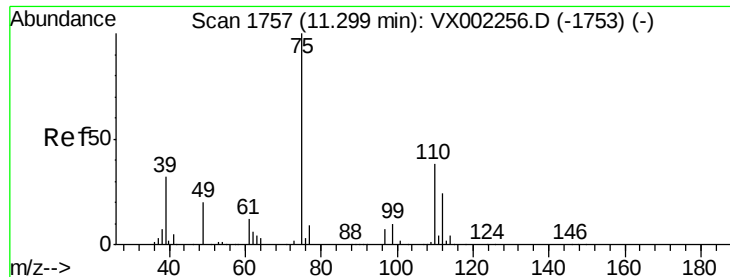


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 28.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

Instrument :

MSVOA_X

ClientSampleId :

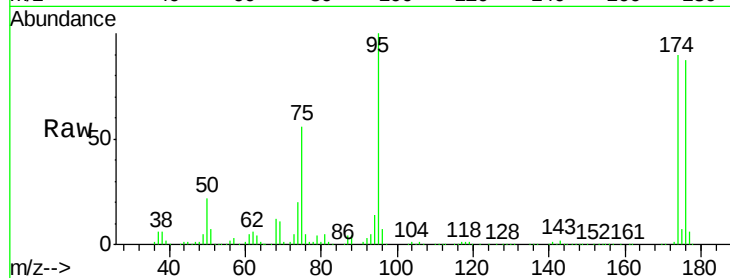
Z4TB09-180607

Tot Ion: 75 Resp: 95902

Ion Ratio Lower Upper

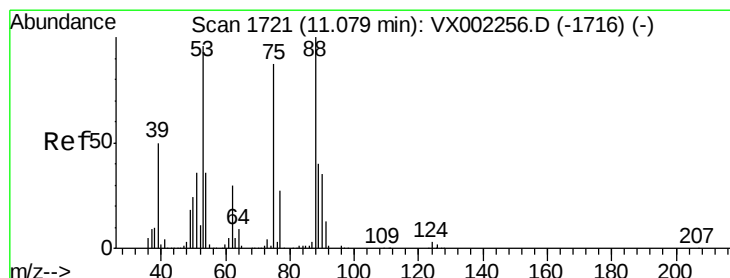
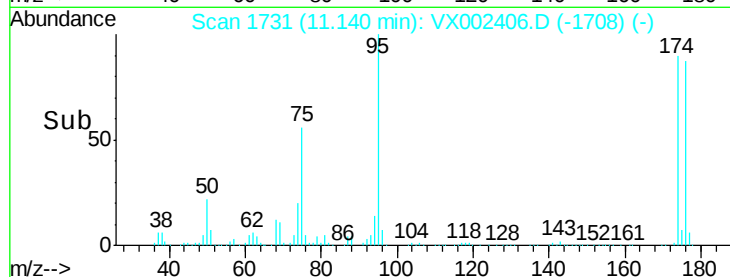
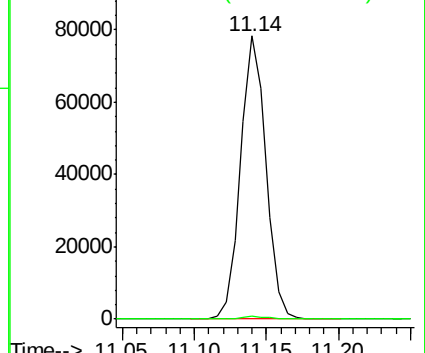
75 100

77 1.1 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 98.68 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002406.D

Acq: 08 Jun 2018 17:10

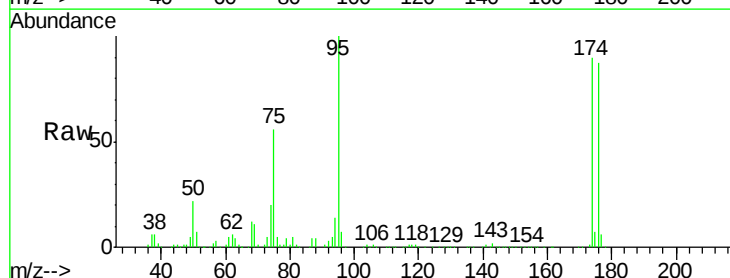
Tgt Ion: 75 Resp: 95902

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

